

IN THE CLAIMS

This listing of claims replaces all prior listings and versions of the claims in the present application.

Listing of Claims:

Claim 1-5 (Canceled).

Claim 6 (Currently Amended): An automated synthesis apparatus for carrying out chemical reactions with reflux cooling comprising:

one or more reactor modules each having one reactor;
one or more feed vessels each for a liquid reactant or reactant mixture; and
one or more metering and feed devices positionable in proximity with each said reactor for introduction of the liquid reactant or reactant mixture from the one or more feed vessel vessels into the one or more reactors each said reactor,
wherein each said reactor includes a lid configured as a hollow body to enclose a hollow space, with an inlet line and an outlet line for a heat transfer medium into or out of the hollow space and with one or more at least one through-[[lines]]line connected to each said reactor for introduction of each liquid reactant mixture into [[the]] each said reactor.

Claim 7 (Previously Presented): An automated synthesis apparatus as claimed in claim 6, wherein the lid is flat.

Claim 8 (Previously Presented): An automated synthesis apparatus as claimed in claim 7, wherein the lid is configured as a flat disk.

Claim 9 (Currently Amended): An automated synthesis apparatus as claimed in claim 6, wherein the inlet line for the heat transfer medium projects into the hollow space of the lid and/or the ~~outlet~~ at least one through-line line for the heat transfer medium ends ~~flush~~ at with an interior wall of the lid enclosing the hollow space.

Claim 10 (Currently Amended): An automated synthesis apparatus as claimed in claim 6, wherein the ~~one or more~~ at least one ~~through-lines~~ projecting beyond a lower edge of the lid into [[the]] an interior space of [[the]] each said reactor.

Claim 11 (Currently Amended): An automated synthesis apparatus as claimed in claim 6, wherein the lid has an increased cross section at [[its]] an underside portion thereof and at [[its]] an upper side thereof.

Claim 12 (New): An automated synthesis apparatus as claimed in claim 6, wherein said reactor has a volume of from 1-100 ml.

Claim 13 (New): An automated synthesis apparatus as claimed in claim 6, wherein said reactor has a volume of from 10-50 ml.

Claim 14 (New): An automated synthesis apparatus as claimed in claim 12, wherein said reactor has a volume of from 10-50 ml.